

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
| L4    | 2243 | ((configur\$4 or adjust\$4) with body with (gate or contact or terminal)) same (transistor or switch or MOSFET OR FET))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>22:59 |
| L5    | 497  | L4 and drain and source and gate  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>23:05 |
| L6    | 1915 | ((configur\$4 or adjust\$4) with body with (gate or contact)) same (transistor or switch or MOSFET OR FET))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>23:07 |
| L7    | 429  | L6 and drain and source and gate  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>23:07 |
| L8    | 428  | L5 and ("320"/\$.ccls. or "324"/\$.ccls. or "361"/\$.ccls. or "326"/\$.ccls. or "327"/\$.ccls. or "330"/\$.ccls. or "365"/\$.ccls. or "257"/\$.ccls. or "438"/\$.ccls.) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>23:08 |
| L9    | 59   | L7 and voltage and feedback   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>23:09 |
| L10   | 384  | L8 not L9   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>23:09 |
| L11   | 278  | L10 and voltage and (feedback or control)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>23:10 |
| L12   | 80   | L11 and charg\$3 and discharg\$3  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>23:10 |
| L13   | 41   | L11 and battery   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>23:10 |
| L14   | 16   | L12 and L13   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR               | ON      | 2008/07/20<br>23:10 |

|     |     |  |  |    |    |                     |
|-----|-----|--|--|----|----|---------------------|
| L15 | 172 | L7 and @ad<="20030110"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>23:12 |
| L16 | 64  | L12 not L13  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>23:18 |
| L17 | 158 | L15 not L16  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>23:18 |
| L18 | 150 | L17 not L13  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>23:18 |
| L19 | 150 | L18 not L12  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>23:24 |
| L20 | 130 | L18 not L9   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>23:24 |
| L21 | 48  | (US-20040135544-\$ or US-20010054887-\$ or US-20040095020-\$ or US-20030094968-\$ or US-20030090237-\$ or US-20030057920-\$ or US-20020001745-\$ or US-20010048288-\$ or US-20060208787-\$ or US-20020021164-\$ or US-20010028606-\$).did. or (US-5896025-\$ or US-6133712-\$ or US-5229650-\$ or US-5978236-\$ or US-6605879-\$ or US-6894457-\$ or US-6545481-\$ or US-6724588-\$ or US-6452362-\$ or US-6021332-\$ or US-5721481-\$ or US-5621299-\$ or US-5818203-\$ or US-6170062-\$ or US-5986437-\$ or US-5739596-\$ or US-5903137-\$ or US-6801019-\$ or US-4210826-\$ or US-6160722-\$ or US-5671128-\$ or US-4027324-\$ or US-7009363-\$ or US-6835491-\$ or US-6489750-\$ or US-6246214-\$).did. or (US-6040684-\$ or US-6037750-\$ or US-5982148-\$ or US-5952815-\$ | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/07/21<br>00:03 |

|     |      |  |  |    |     |                     |
|-----|------|--|--|----|-----|---------------------|
|     |      | or US-6677645-\$ or US-6833724-\$ or US-6452414-\$ or US-5786682-\$ or US-6418075-\$ or US-5729120-\$).did. or (US-3821483-\$). did. |  |    |     |                     |
| L22 | 2    | L21 and body with (terminal or contact)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/21<br>00:04 |
| L23 | 2815 | callahan.in.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/21<br>00:16 |
| L24 | 46   | L23 and "327"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/21<br>00:17 |
| L25 | 48   | callahan-michael.in.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/21<br>00:17 |
| L29 | 2815 | callahan.in.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/21<br>00:19 |
| L34 | 1349 | L29 and @ad<="20030120"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/21<br>00:23 |
| L35 | 35   | L34 and body and (transistor or switch or MOSFET or FET)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/21<br>00:23 |
| L36 | 28   | L34 and ((configur\$4 or control\$4 or switch\$4 or select\$5) with body\$4)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/21<br>00:27 |
| L37 | 28   | L34 and ((configur\$4 or control\$4 or switch\$4 or select\$5) with body\$5)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/21<br>00:28 |
| S1  | 1414 | (320/110,107).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/04/27<br>17:54 |
| S2  | 794  | (320/110).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/04/27<br>17:56 |

|     |     |   |  |    |     |                     |
|-----|-----|---|--|----|-----|---------------------|
| S3  | 723 | (320/128).CQLS.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/04/27<br>17:57 |
| S4  | 241 | (320/163).CQLS.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/04/27<br>17:57 |
| S5  | 239 | (320/164).CQLS.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/04/27<br>18:14 |
| S6  | 1   | battery and charg\$3 and (source or supply) and (bi\$1directional with transistor) and ((reulat\$3 or control\$3) with transistor) and ((sens\$3 or detect\$3 or monitor\$3) with current) and ((threshold or limit) with current) and ((impedance or resistance) (vari\$4 or change\$4)) and (invers\$3 with (impedance or resistance)) and voltage and charg\$3 and discharg\$3 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/27<br>18:23 |
| S7  | 78  | battery and charg\$3 and discharg\$3 and (source or supply) and (bi\$1directional with transistor) and ((sens\$3 or detect\$3 or monitor\$3) with current) and ((threshold or limit) with current) and ((impedance or resistance) (vari\$4 or change\$4))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/27<br>18:24 |
| S8  | 30  | battery and charg\$3 and discharg\$3 and (source or supply) and (bi\$1directional with transistor) and ((sens\$3 or detect\$3 or monitor\$3) with current) and ((threshold or limit) with current) and ((impedance or resistance) with (vari\$4 or change\$4))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/27<br>18:58 |
| S9  | 3   | ("4027324").PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/04/27<br>18:41 |
| S10 | 18  | ("5111374"   "5111376"   "5229650"   "5502630"   "5644483"   "5710696"   "5781422"   "5978236"   "6005362"   "6014322").PN.<br>OR ("6160722").URPN.   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2006/04/27<br>18:54 |

|     |     |  |  |    |     |                     |
|-----|-----|--|--|----|-----|---------------------|
| S11 | 91  | battery and charg\$3 and discharg\$3 and (source or supply) and ((b\$1directional with (transistor or switch)) and ((sens\$3 or detect\$3 or monitor\$3) with current) and ((threshold or limit) with current) and ((impedance or resistance) with (vari\$4 or change\$4)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2007/06/07<br>17:06 |
| S13 | 61  | S11 not S8   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/28<br>11:50 |
| S14 | 92  | battery and (((multiple with (power near2 (source or supply)))) same (selective or switchable or selectable))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/28<br>13:53 |
| S15 | 151 | ((((multiple or two) with (power near2 (source or supply)) with AC) same (selective or switchable or selectable or select))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/28<br>13:54 |
| S16 | 142 | S15 not S14  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/28<br>13:54 |
| S17 | 91  | S16 and (DC or battery)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/28<br>13:54 |
| S18 | 82  | S17 and (transistor or switch or MOSFET or BJT or FET)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/28<br>13:55 |
| S19 | 36  | S18 and charg\$3   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/28<br>13:55 |
| S20 | 41  | S17 and charg\$3   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/28<br>14:21 |
| S21 | 214 | (320/111).COLS.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/04/28<br>14:21 |
| S22 | 111 | S21 and (((multiple or many or two or three or various) with (AC or sources or supplies or plugs))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/28<br>14:23 |

|     |     |   |  |    |     |                     |
|-----|-----|---|--|----|-----|---------------------|
| S23 | 74  | S22 and (select or switch or choose) and battery and charg\$3   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/04/28<br>14:23 |
| S24 | 20  | ("5557738"   "5563493"   "5572110"   "5583417").PN.<br>OR ("5721481").URPN.   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2006/04/28<br>14:31 |
| S25 | 18  | ("5111374"   "5111376"   "5229650"   "5502630"   "5644483"   "5710696"   "5781422"   "5978236"   "6005362"   "6014322").PN.<br>OR ("6160722").URPN.   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2006/04/28<br>18:20 |
| S26 | 56  | ((("4901217") or ("5239495") or ("5313642") or ("5349282") or ("5465039") or ("5514859") or ("5625275") or ("5764028") or ("5884086") or ("5982160") or ("5986437") or ("5903137") or ("6000042") or ("6058034") or ("6114842") or ("6130813") or ("6133712") or ("6147682") or ("6169384") or ("6170062") or ("6184652") or ("6211649") or ("6222347") or ("6255800") or ("6337557") or ("6465987") or ("20010021659") or ("20010045813")).PN. | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/04/28<br>18:24 |
| S27 | 8   | ((("20020005707") or ("20020038432") or ("20020061739") or ("20020130638")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/04/28<br>18:24 |
| S29 | 0   | (s2ors3ors4ors5) and @pd> = "20060425"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/12/17<br>17:59 |
| S30 | 810 | (320/110).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/12/17<br>17:59 |
| S31 | 768 | (320/128).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/12/17<br>17:59 |
| S32 | 242 | (320/163).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/12/17<br>17:59 |

|     |     |  |  |    |     |                     |
|-----|-----|--|--|----|-----|---------------------|
| S33 | 240 | (320/164).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2006/12/17<br>17:59 |
| S34 | 67  | (S30 or S31 or S32 or S33)<br>and @pd>="20060425"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/12/17<br>18:00 |
| S35 | 83  | battery and charg\$3 and<br>discharg\$3 and (source or<br>supply) and (bi\$1directional<br>with transistor) and ((sens\$3<br>or detect\$3 or monitor\$3)<br>with current) and ((threshold<br>or limit) with current) and<br>((impedance or resistance)<br>(vari\$4 or change\$4))                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/12/17<br>18:00 |
| S36 | 96  | battery and charg\$3 and<br>discharg\$3 and (source or<br>supply) and (bi\$1directional<br>with (transistor or switch))<br>and ((sens\$3 or detect\$3 or<br>monitor\$3) with current) and<br>(((threshold or limit) with<br>current) and ((impedance or<br>resistance) with (vari\$4 or<br>change\$4)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/12/17<br>18:00 |
| S37 | 100 | battery and ((multiple with<br>(power near2 (source or<br>supply))) same (selective or<br>switchable or selectable))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/12/17<br>18:00 |
| S38 | 17  | (S35 or S36 or S37) and<br>@pd>="20060425"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2006/12/17<br>18:03 |
| S39 | 585 | battery and charg\$3 and<br>discharg\$3 and (source or<br>supply) and (transistor or<br>MOSFET) and ((sens\$3 or<br>detect\$3 or monitor\$3) with<br>current) and ((threshold or<br>limit) with current) and<br>(linear\$2 with regulat\$3)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2007/06/07<br>17:34 |
| S40 | 172 | S39 and ("320"/\$.ccls. or<br>"324"/\$.ccls. or "361"/\$.ccls.<br>or "307"/\$.ccls.)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2007/06/08<br>18:50 |

|     |     |  |  |    |    |                     |
|-----|-----|--|--|----|----|---------------------|
| S41 | 585 | battery and charg\$3 and discharg\$3 and (source or supply) and (transistor or MOSFET) and ((sens\$3 or detect\$3 or monitor\$3) with current) and ((threshold or limit) with current) and (linear\$2 with regulat\$3)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/06/08<br>18:50 |
| S42 | 172 | S41 and ("320"/\$.cds. or "324"/\$.cds. or "361"/\$.cds. or "307"/\$.cds.)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/06/08<br>18:50 |
| S43 | 104 | S42 and (linear with regulat\$3) and battery with charg\$3 and battery with discharg\$3  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2007/06/08<br>18:53 |
| S44 | 39  | ((US-20040135544-\$ or US-20010054887-\$ or US-20040095020-\$ or US-20030094968-\$ or US-20030090237-\$ or US-20030057920-\$ or US-20020001745-\$ or US-20010048288-\$).did. or (US-5896025-\$ or US-6133712-\$ or US-5229650-\$ or US-5978236-\$ or US-6605879-\$ or US-6894457-\$ or US-6545481-\$ or US-6724588-\$ or US-6452362-\$ or US-6021332-\$ or US-5721481-\$ or US-5621299-\$ or US-5818203-\$ or US-6170062-\$ or US-5986437-\$ or US-5739596-\$ or US-5903137-\$ or US-6801019-\$ or US-4210826-\$ or US-6160722-\$ or US-5671128-\$ or US-4027324-\$ or US-7009363-\$ or US-6835491-\$ or US-6489750-\$ or US-6246214-\$).did. or (US-6040684-\$ or US-6037750-\$ or US-5982148-\$ or US-5952815-\$).did. or (US-3821483-\$).did. | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2007/06/09<br>21:55 |
| S45 | 11  | S44 and ((linear with regulat\$3) and battery and charg\$3 and discharg\$3 and (MOSFET or FET) and (current with (sens\$3 or detect\$3 or monitor\$3 or regulat\$3)) and (current with (threshold or limit\$3)))   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2007/06/09<br>22:26 |



|     |    |   |  |    |     |                     |
|-----|----|---|--|----|-----|---------------------|
| S46 | 5  | ((MOSFET or FET) with configurable with body with contact) or ((MOSFET or FET) with (multi\$gate\$1 or ((configurable or changeable) with body))) and comparator  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2007/06/10<br>16:28 |
| S47 | 2  | ((MOSFET or FET or transistor) with (configurable or changeable or interchangeable or controllable) with body) and (comparator with (MOSFET or FET or transistor))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2007/06/10<br>16:31 |
| S48 | 77 | ((MOSFET or FET or transistor) with (configurable or changeable or interchangeable or controllable) with (body or source) with (contact or terminal)) and (comparator with (MOSFET or FET or transistor))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2007/06/10<br>16:35 |
| S49 | 6  | ((MOSFET or FET or transistor) with (configurable or changeable or interchangeable or controllable) with (body or source) with (contact or terminal)) and (comparator with (MOSFET or FET or transistor) same polarity)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2007/06/10<br>16:33 |
| S50 | 2  | ("6677645").PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2007/06/10<br>16:35 |
| S51 | 29 | ("4577390"   "4965213"   "5079605"   "5089870"   "5126817"   "5145802"   "5160989"   "5185280"   "5298773"   "5317181"   "5324683"   "5424225"   "5489792"   "5559368"   "5811855"   "5818085"   "5821575"   "5831320"   "5872383"   "5929490"   "5930605"   "5962895"   "5973364"   "5982003"   "6084255"   "6261921"   "6281593"   "6344671").PN.<br>OR ("6677645").URPN. | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2007/06/10<br>16:46 |

|     |    |  |                           |    |    |                     |
|-----|----|--|---------------------------|----|----|---------------------|
| S52 | 2  | comparator with body with MOSFET with (chang\$5 or alter\$4 or switch\$4 or flip\$4 or configur\$ or interchang\$5)  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/06/10<br>16:49 |
| S53 | 57 | comparator with body with (MOSFET or FET or transistor) with (chang\$5 or alter\$4 or switch\$4 or flip\$4 or configur\$ or interchang\$5)   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/06/10<br>16:50 |
| S54 | 6  | ("20020021164"   "4529897"   "5512814"   "6100719"   "6421262"   "6580258").PN.<br>OR ("6859089").URPN.  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2007/06/10<br>16:58 |
| S55 | 42 | (US-20040135544-\$ or US-20010054887-\$ or US-20040095020-\$ or US-20030094968-\$ or US-20030090237-\$ or US-20030057920-\$ or US-20020001745-\$ or US-20010048288-\$ or US-20060208787-\$ or US-20020021164-\$).did. or (US-5896025-\$ or US-6133712-\$ or US-5229650-\$ or US-5978236-\$ or US-6605879-\$ or US-6894457-\$ or US-6545481-\$ or US-6724588-\$ or US-6452362-\$ or US-6021332-\$ or US-5721481-\$ or US-5621299-\$ or US-5818203-\$ or US-6170062-\$ or US-5986437-\$ or US-5739596-\$ or US-5903137-\$ or US-6801019-\$ or US-4210826-\$ or US-6160722-\$ or US-5671128-\$ or US-4027324-\$ or US-7009363-\$ or US-6835491-\$ or US-6489750-\$ or US-6246214-\$).did. or (US-6040684-\$ or US-6037750-\$ or US-5982148-\$ or US-5952815-\$ or US-6677645-\$).did. or (US-3821483-\$).did. | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2008/01/21<br>18:19 |
| S56 | 25 | S55 and (current with (threshold or reference))  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2008/01/21<br>18:20 |
| S57 | 9  | S56 and ((threshold or reference) with (multiple or various or selectable or alternat\$3 or two or multitude or many or different))  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2008/01/21<br>18:21 |

|     |      |   |  |    |    |                     |
|-----|------|---|--|----|----|---------------------|
| S58 | 9703 | ((current with compar\$3 with ((reference or threshold near4 (multiple or two or values)))                                | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/21<br>18:46 |
| S59 | 92   | ((current with compar\$3 with ((reference or threshold near4 multiple))   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/21<br>18:46 |
| S60 | 9    | S59 and ("320"/\$.ccls. or "324"/\$.ccls.)  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/21<br>18:47 |
| S61 | 21   | S59 and (current with multiple with reference with generat\$3)  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/21<br>19:00 |
| S62 | 20   | S61 not S60   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/21<br>19:00 |
| S63 | 11   | S59 and (current with multiple with reference with (select\$4 or choos\$4))   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/21<br>19:06 |
| S64 | 304  | S58 with (reference near4 current near4 generat\$3)   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/21<br>19:16 |
| S65 | 912  | S58 and (reference near4 current near4 generat\$3)  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/21<br>19:17 |
| S66 | 92   | S58 and ((reference near4 current near4 generat\$3) with (select\$4 or choos\$3))   | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/21<br>19:17 |
| S67 | 5    | S66 and ("320"/\$.ccls. or "324"/\$.ccls.)  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/21<br>19:18 |
| S68 | 7345 | ((multiple or selectable) with (power near4 (source or supply))) and transistor   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:29 |
| S69 | 7062 | ((multiple or selectable) with (power near2 (source or supply))) and transistor   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:29 |
| S70 | 2522 | S69 and battery   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:30 |
| S71 | 1155 | S70 and ((transistor or MOSFET or FET) with diode)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:30 |
| S72 | 10   | "L200" and (charg\$3 with battery)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:31 |
| S73 | 3900 | ((multiple or selectable) with (power near2 (source or supply))) and ((transistor or MOSFET or FET or switch) with diode) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:31 |

|     |     |   |  |    |    |                     |
|-----|-----|---|--|----|----|---------------------|
| S74 | 789 | S73 and (charg\$3 with battery)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:32 |
| S75 | 602 | S74 and ((control\$3 or regulat\$4) with (transistor or switch or MOSFET or FET)) same (mode or current or threshold or limit)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:33 |
| S76 | 501 | S74 and ((isolat\$3 or disconnect\$3 or off) with (power with (source or supply)))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:34 |
| S77 | 392 | S75 and S76   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:35 |
| S78 | 65  | S77 and ("320"/\$.ccls. or "324"/\$.ccls.)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>21:35 |
| S79 | 100 | S77 and ("323"/\$.ccls. or "363"/\$.ccls.)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>22:01 |
| S80 | 94  | S79 not S78   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/21<br>22:02 |
| S81 | 45  | (US-20040135544-\$ or US-20010054887-\$ or US-20040095020-\$ or US-20030094968-\$ or US-20030090237-\$ or US-20030057920-\$ or US-20020001745-\$ or US-20010048288-\$ or US-20060208787-\$ or US-20020021164-\$).did. or (US-5896025-\$ or US-6133712-\$ or US-5229650-\$ or US-5978236-\$ or US-6605879-\$ or US-6894457-\$ or US-6545481-\$ or US-6724588-\$ or US-6452362-\$ or US-6021332-\$ or US-5721481-\$ or US-5621299-\$ or US-5818203-\$ or US-6170062-\$ or US-5986437-\$ or US-5739596-\$ or US-5903137-\$ or US-6801019-\$ or US-4210826-\$ or US-6160722-\$ or US-5671128-\$ or US-4027324-\$ or US-7009363-\$ | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/01/22<br>11:51 |

|     |     |   |  |    |    |                     |
|-----|-----|---|--|----|----|---------------------|
|     |     | or US-6835491-\$ or US-6489750-\$ or US-6246214-\$).did. or (US-6040684-\$ or US-6037750-\$ or US-5982148-\$ or US-5952815-\$ or US-6677645-\$ or US-6833724-\$ or US-6452414-\$ or US-5786682-\$).did. or (US-3821483-\$).did. |  |    |    |                     |
| S82 | 0   | S81 and ((pull\$1up with resistor) and (pull\$1down with resistor))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/22<br>11:51 |
| S83 | 168 | ((pull\$1up with resistor) and (pull\$1down with resistor)) and ((p\$1type or p\$1channel) with transistor) same reference  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/22<br>11:53 |
| S84 | 82  | S83 and charg\$3  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/22<br>11:53 |
| S85 | 270 | ((pull\$1up with resistor) and (pull\$1down with transistor)) same reference  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/22<br>12:01 |
| S86 | 123 | S85 and charg\$3  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/22<br>12:01 |
| S87 | 114 | S86 and (reference with (potential or value or voltage or signal))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/22<br>12:01 |
| S88 | 71  | S87 and (select\$3 or activat\$3 or choos\$3) with transistor   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/22<br>12:02 |
| S89 | 95  | S87 and (select\$3 or activat\$3 or choos\$3 or turn) with transistor   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/22<br>12:02 |
| S90 | 3   | S89 and ("320"/\$.ccls. or "324"/\$.ccls. or "323"/\$.ccls. or "363"/\$.ccls.)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/22<br>12:02 |
| S91 | 17  | S84 and ((pull\$1up near3 resistor) and (pull\$1down near3 transistor))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/01/22<br>12:17 |

|     |   |  |          |    |    |                  |
|-----|---|--|----------|----|----|------------------|
| S92 | 0 | ((battery or (storage with (unit or electrical or string)) or accumulator) AND (converter or DC\$4DC or buck or boost or fly\$1back) AND (individual or single or one) AND (SOC or state\$1of \$1charge or capacity) AND (impedance or resistance) AND current AND voltage AND (inductor or transformer) AND (switch or transistor or MOSFET or FET) AND (pulse with generator) AND (enable or control or turn) AND balanc \$3).clm. | US-PGPUB | OR | ON | 2008/01/22 14:24 |
| S93 | 0 | ((battery or (storage with (unit or electrical or string)) or accumulator) AND (converter or DC\$4DC or buck or boost or fly\$1back) AND (individual or single or one) AND (SOC or state\$1of \$1charge or capacity) AND (impedance or resistance) AND current AND voltage AND (inductor or transformer) AND (switch or transistor or MOSFET or FET) AND (pulse with generator) AND balanc\$3).clm.                                  | US-PGPUB | OR | ON | 2008/01/22 14:24 |
| S94 | 0 | ((battery or (storage with (unit or electrical or string)) or accumulator) AND (converter or DC\$4DC or buck or boost or fly\$1back) AND (individual or single or one) AND (SOC or state\$1of \$1charge or capacity) AND (impedance or resistance) AND current AND voltage AND (inductor or transformer) AND (pulse with generator) AND balanc \$3).clm.   | US-PGPUB | OR | ON | 2008/01/22 14:24 |

|     |   |   |          |    |    |                  |
|-----|---|---|----------|----|----|------------------|
| S95 | 0 | ((battery or (storage with (unit or electrical or string)) or accumulator) AND (converter or DC\$4DC or buck or boost or fly\$1back) AND (SOC or state\$1of \$1charge or capacity) AND (impedance or resistance) AND current AND voltage AND (inductor or transformer) AND (pulse with generator) AND balance\$3).clm.                        | US-PGPUB | OR | ON | 2008/01/22 14:25 |
| S96 | 1 | ((battery or (storage with (unit or electrical or string)) or accumulator) AND (converter or DC\$4DC or buck or boost or fly\$1back) AND (SOC or state\$1of \$1charge or capacity) AND (impedance or resistance) AND current AND voltage AND (inductor or transformer) AND (pulse with generator)).clm.                                       | US-PGPUB | OR | ON | 2008/01/22 14:25 |
| S97 | 1 | ((battery or (storage with (unit or electrical or string)) or accumulator) AND (converter or DC\$4DC or buck or boost or fly\$1back) AND (SOC or state\$1of \$1charge or capacity) AND (impedance or resistance) AND current AND voltage AND (inductor or transformer) AND ((pulse with generator) or PWM or pulse\$1width\$1modulator)).clm. | US-PGPUB | OR | ON | 2008/01/22 14:27 |
| S99 | 5 | ((battery or (storage with (unit or electrical or string)) or accumulator) AND (converter or DC\$4DC or buck or boost or fly\$1back) AND (SOC or state\$1of \$1charge or capacity) AND (inductor or transformer) AND ((pulse with generator) or PWM or pulse\$1width \$1modulator)).clm.  | US-PGPUB | OR | ON | 2008/01/22 14:27 |

|      |    |  |                           |    |    |                     |
|------|----|--|---------------------------|----|----|---------------------|
| S100 | 5  | ((battery or (storage with (unit or electrical or string))) or accumulator) AND (converter or DC\$4DC or buck or boost or fly\$1back) AND (SOC or state\$1of \$1charge or capacity) AND (inductor or transformer) AND ((pulse with generator) or PWM or pulse\$1width \$1modulator)).clm.  | US-PGPUB                  | OR | ON | 2008/01/22<br>14:30 |
| S101 | 29 | ((battery or (storage with (unit or electrical or string))) or accumulator) AND (converter or DC\$4DC or buck or boost or fly\$1back) AND (SOC or state\$1of \$1charge or capacity) AND (inductor or transformer)).clm.  | US-PGPUB                  | OR | ON | 2008/01/22<br>14:30 |
| S102 | 48 | (US-20040135544-\$ or US-20010054887-\$ or US-20040095020-\$ or US-20030094968-\$ or US-20030090237-\$ or US-20030057920-\$ or US-20020001745-\$ or US-20010048288-\$ or US-20060208787-\$ or US-20020021164-\$ or US-20010028606-\$).did. or (US-5896025-\$ or US-6133712-\$ or US-5229650-\$ or US-5978236-\$ or US-6605879-\$ or US-6894457-\$ or US-6545481-\$ or US-6724588-\$ or US-6452362-\$ or US-6021332-\$ or US-5721481-\$ or US-5621299-\$ or US-5818203-\$ or US-6170062-\$ or US-5986437-\$ or US-5739596-\$ or US-5903137-\$ or US-6801019-\$ or US-4210826-\$ or US-6160722-\$ or US-5671128-\$ or US-4027324-\$ or US-7009363-\$ or US-6835491-\$ or US-6489750-\$ or US-6246214-\$).did. or (US-6040684-\$ or US-6037750-\$ or US-5982148-\$ or US-5952815-\$ or US-6677645-\$ or US-6833724-\$ or US-6452414-\$ or US-5786682-\$ or US-6418075-\$ or US-5729120-\$).did. or (US-3821483-\$). | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2008/07/20<br>19:45 |



|      |      |  |  |    |     |                     |
|------|------|--|--|----|-----|---------------------|
|      |      | did.   |  |    |     |                     |
| S103 | 0    | S102 and ((configur\$4 with body) same (transistor or switch or MOSFET or FET))  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2008/07/20<br>19:46 |
| S104 | 11   | S102 and (configur\$4 same (transistor or switch or MOSFET or FET))  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2008/07/20<br>19:47 |
| S105 | 4    | S104 and body  | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2008/07/20<br>19:47 |
| S106 | 2    | ("5739596").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2008/07/20<br>19:55 |
| S107 | 20   | charg\$3 and discharg\$3 and battery and ((configur\$4 with body with contact) same (transistor or switch or MOSFET OR FET)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/20<br>21:52 |
| S108 | 1202 | charg\$3 and discharg\$3 and battery and ((body with contact) same (transistor or switch or MOSFET OR FET))                  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/20<br>21:54 |
| S109 | 0    | S108 and S102  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/20<br>21:54 |
| S110 | 94   | S108 and ("320"/\$.ccls. or "324"/\$.ccls.)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/20<br>21:55 |
| S111 | 53   | S110 and ((compar\$3 or determin\$3 or linear\$2 or select\$4 or feedback) same body)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/20<br>21:57 |
| S112 | 41   | S110 not S111  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2008/07/20<br>22:06 |
| S113 | 3    | ("7015547").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2008/07/20<br>22:07 |

|      |      |  |  |    |    |                     |
|------|------|--|--|----|----|---------------------|
| S114 | 38   | ("20010022521"  <br>"20020047727"  <br>"20020081808"  <br>"20020084803"  <br>"20020093053"  <br>"20020105039"  <br>"20020140039"  <br>"20020153587"  <br>"20020180486"  <br>"20020187610"  <br>"20030058001"  <br>"20030089930"   "3755012"<br>  "4300064"   "4468574"  <br>"5273921"   "5349228"  <br>"5436506"   "5677550"  <br>"5773331"   "6064589"  <br>"6072354"   "6097221"  <br>"6104068"   "6188243"  <br>"6248626"   "6365465"  <br>"6376317"   "6404237"  <br>"6420905"   "6433609"  <br>"6472258"   "6483156"  <br>"6506638"   "6518127"  <br>"6580137").PN. OR<br>("7015547").URPN. | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/07/20<br>22:07 |
| S115 | 10   | charg\$3 and discharg\$3 and<br>battery and ((configur\$4<br>with body with gate) same<br>(transistor or switch or<br>MOSFET OR FET))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>22:10 |
| S116 | 468  | ((configur\$4 with body with<br>(gate or contact)) same<br>(transistor or switch or<br>MOSFET OR FET))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>22:14 |
| S117 | 1915 | ((((configur\$4 or adjust\$4)<br>with body with (gate or<br>contact)) same (transistor or<br>switch or MOSFET OR FET))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>22:15 |
| S118 | 429  | S117 and drain and source<br>and gate  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>22:16 |
| S119 | 59   | S118 and voltage and<br>feedback   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/07/20<br>22:18 |

7/ 21/ 2008 2:29:41 AM

C:\Documents and Settings\apiggush\My Documents\EAST\Workspaces  
\10760126and10758952.wsp